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 Arthur D. Little, Inc.

## ADMINISTRATIVE RECORD

July 12, 1983

Dr. Julie Yang  
Manager - Research Technologies  
W.R. Grace & Co.  
62 Whittemore Avenue  
Cambridge, MA 02140

Dear Julie

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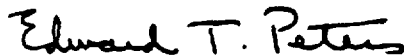
In accordance with your letter of July 1, 1983, we have analyzed a commercial sample of Monokote (Lot No. 2F1) taken from the job site of the ABC building at W. 66th Street, New York City and hand delivered by you for the presence and quantity of amphibole fibers. For this purpose, we have defined fiber as any particle with approximately parallel sides and with an aspect ratio of 3 or greater.

The sample was coned and quartered with opposite quarters combined, weighed, acid digested to dissolve plaster of paris and wet screened. Prior studies have shown quantitative recovery of tremolite asbestos fiber from the Libby mine for the digestion procedure used. The digestion liquors and residue washings were combined, made up to 4000 ml and a 1 ml sample was taken, filtered through a Nuclepore filter from which several electron microscope grids were prepared by the Jaffee wick method.

For analysis, 20 random pore openings were traversed at 10,000X and any particle meeting the fiber definition was measured (length and width) and analyzed by selected area electron diffraction (SAED). Photographs of several typical fibers and their SAED's were recorded.

A total of 32 fibers was observed, eight of which were identified as confirmed tremolite or possible tremolite. Based on the dimensions of these fibers, the sample analyzed yielded a mass concentration of 9 ppm. Based upon our laboratory experience, replicate analyses agree within a factor of two times, indicating conservatively a likely range of 5 to 20 ppm tremolite fiber in the Monokote sample examined. In my opinion, this concentration is totally insignificant.

Very truly yours,



Edward T. Peters

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